

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
Alamo Cement Company

AUTHORIZING THE OPERATION OF  
San Antonio Cement Plant  
Cement

LOCATED AT  
Bexar County, Texas  
Latitude 29° 36' 43" Longitude 98° 22' 33"  
Regulated Entity Number: RN100220474

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No:     O1115     Issuance Date: \_\_\_\_\_

\_\_\_\_\_  
For the Commission

## Table of Contents

Section	Page
General Terms and Conditions .....	1
Special Terms and Conditions: .....	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting.....	1
Additional Monitoring Requirements .....	7
New Source Review Authorization Requirements .....	8
Compliance Requirements.....	9
Permit Location .....	9
Attachments .....	10
Applicable Requirements Summary.....	11
Additional Monitoring Requirements .....	20
New Source Review Authorization References .....	38
Appendix A.....	44
Acronym List .....	45
Appendix B.....	46

## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions:**

### **Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart LLL as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.690 which incorporates the 40 CFR Part 63 Subpart by reference.
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)
  - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
    - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
    - (ii) Title 30 TAC § 111.111(a)(1)(E)
    - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
    - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive

ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
  - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
  - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity

requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
  - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
  - (2) Records of all observations shall be maintained.
  - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to

condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- E. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)
  - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: "Storage of Volatile Organic Compounds," the permit holder shall comply with the requirements of 30 TAC § 115.112(c)(1).
- 5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed no more than

25,000 gallons of gasoline in any calendar month after December 31, 2004, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

- (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
  - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
  - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
  - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)
- 6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 7. For the nonmetallic mineral processing operations specified in 40 CFR Part 60, Subpart OOO, the permit holder shall comply with the following requirements:
  - A. Title 40 CFR § 60.670(f) (relating to Applicability and Designation of Affected Facility), for Table 1 for Subpart A
  - B. Title 40 CFR § 60.673(a) - (b) (relating to Reconstruction)
  - C. Title 40 CFR § 60.676(h) (relating to Reporting and Recordkeeping)
- 8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 9. For each gasoline dispensing facility, with a throughput of less than 10,000 gallons per month as specified in 40 CFR Part 63, Subpart CCCCC, the permit holder shall comply with the following requirements (Title 30 TAC, Subchapter C, § 113.1380 incorporated by reference):
  - A. Title 40 CFR § 63.11111(e), for records of monthly throughput
  - B. Title 40 CFR § 63.11111(i), for compliance due to increase of throughput



- C. Title 40 CFR § 63.11113(c), for compliance due to increase of throughput
- D. Title 40 CFR § 63.11115(a), for operation of the source
- E. Title 40 CFR § 63.11116(a) and (a)(1) - (4), for work practices
- F. Title 40 CFR § 63.11116(b), for records availability
- G. Title 40 CFR § 63.11116(d), for portable gasoline containers

#### **Additional Monitoring Requirements**

10. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
  - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
  - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
  - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
  - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.
  - E. Except for emission units using a CEMS, COMS or PEMS which meets the requirements of 40 CFR § 64.3(d)(2), the permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:
    - (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or
    - (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.
  - F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

11. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

#### **New Source Review Authorization Requirements**

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements
  - B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
15. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
  - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
  - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
  - C. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

## Compliance Requirements

16. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
  - A. The permit holder shall comply with the compliance schedule as required in 30 TAC § 117.9320 for cement kilns.
17. Use of Discrete Emission Credits to comply with the applicable requirements:
  - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
    - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
    - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
    - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

## Permit Location

18. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

#### **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

<b>Unit Summary .....</b>	<b>12</b>
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<b>Applicable Requirements Summary .....</b>	<b>14</b>
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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
CD-1	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
D28	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPBAG	NON-METALLIC MINERAL PROCESSING PLANTS	R102, R75	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCAMFIN	NON-METALLIC MINERAL PROCESSING PLANTS	N02, N52	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCLINK	NON-METALLIC MINERAL PROCESSING PLANTS	M-21, M-23, M-24, M-25	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCLINK2	NON-METALLIC MINERAL PROCESSING PLANTS	K38, L02, L04, L07, L08, L27, L29, L30, M01, M-13, M-14, M-18, M-19, M-26	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCOAL	COAL PREPARATION PLANTS	S08, S11, S13, S18, S20, S37	60Y-254	40 CFR Part 60, Subpart Y	No changing attributes.
GRPCOALHOP	COAL PREPARATION PLANTS	S07, S44, S98	60Y-254	40 CFR Part 60, Subpart Y	No changing attributes.
GRPFINISH	NON-METALLIC MINERAL PROCESSING PLANTS	N06A, N16A, N66A	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPGYP	NON-METALLIC MINERAL PROCESSING PLANTS	M-02, M04, M-12	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPLOAD	NON-METALLIC MINERAL PROCESSING PLANTS	R09, R19, R29, R39, R49, R59	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPRAW	NON-METALLIC MINERAL PROCESSING PLANTS	E01, E03, F05, F13	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPRAW2	NON-METALLIC MINERAL PROCESSING PLANTS	F09, H09	60F	40 CFR Part 60, Subpart F	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPRMS	NON-METALLIC MINERAL PROCESSING PLANTS	D01, D04, D06, D11, D14, D15, D16, D17, D20, Q10	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPSILO	NON-METALLIC MINERAL PROCESSING PLANTS	M-79, N-136A, N72, N73, N-80, N97, SILO12-15, SILO8-11	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPSLAG	NON-METALLIC MINERAL PROCESSING PLANTS	M-34, M-34A, M-34B, M-34C, M-35, M-35A, M-35B	60F	40 CFR Part 60, Subpart F	No changing attributes.
K02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
K02	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
K02	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	63LLL	40 CFR Part 63, Subpart LLL	No changing attributes.
N56A	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
CD-1	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
D28	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPBAG	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPCAMFI N	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See CAM Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F



### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPCLINK	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPCLINK2	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPCOAL	EU	60Y-254	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	None

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPCOALH OP	EU	60Y-254	PM (Opacity)	40 CFR Part 60, Subpart Y	§ 60.254(a) § 60.257(a)	On and after the date on which the performance test is conducted or required to be completed under §60.8, whichever date comes first, an owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal constructed, reconstructed, or modified on or before April 28, 2008, gases which exhibit 20 percent opacity or greater.	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(3) ** See Periodic Monitoring Summary	None	None
GRPFINISH	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPGYP	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPLOAD	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPRAW	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPRAW2	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPRMS	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPSILO	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
GRPSLAG	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F
K02	EP	R1111	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None
K02	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

### Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
K02	EU	63LLL	DIOXINS/FURANS	40 CFR Part 63, Subpart LLL	§ 63.1340 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart LLL
K02	EU	63LLL	PM	40 CFR Part 63, Subpart LLL	§ 63.1340 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart LLL
K02	EU	63LLL	TOTAL HYDROCARBONS	40 CFR Part 63, Subpart LLL	§ 63.1340 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart LLL
N56A	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.60 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the monitoring and testing requirements of 40 CFR Part 60, Subpart F ** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart F	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart F

**Additional Monitoring Requirements**

<b>Compliance Assurance Monitoring Summary .....</b>	<b>21</b>
<b>Periodic Monitoring Summary .....</b>	<b>22</b>

### CAM Summary

Unit/Group/Process Information	
ID No.: GRPCAMFIN	
Control Device ID No.: GRPCAMFIN	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Bag Leak Detection Signal and opacity	
Minimum Frequency: Four times per hour	
Averaging Period: Establish per EPA Guidance (EPA-454/R-98-015)	
Deviation Limit: Visible emissions and 10% opacity	
<p>CAM Text: Each monitoring device shall be installed, calibrated and maintained in a manner consistent with EPA Office of Air Quality Planning and Standards, Fabric Filter Bag Leak Detection Guidance (EPA-454/R-98-015). When an alarm event occurs, the plant operators shall shut down the unit and make any necessary repairs to the filter bags. Upon unit startup, a Test Method 9 shall be performed as soon as possible, but no later than 24 hours after the unit is back online. Any opacity reading exceeding 10% shall be reported as a deviation.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CD-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: Once per month	
Averaging Period: Six-minutes	
Deviation Limit: 10% opacity	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: D28	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Monthly	
Averaging Period: One minute	
Deviation Limit: 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBAG	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCLINK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCLINK2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOAL	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-254
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 20% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOALHOP	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-254
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: One-minute	
Averaging Period: Once per month	
Deviation Limit: Visible emissions and 20% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPFINISH	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPGYP	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	



### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPLOAD	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRAW	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRAW2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRMS	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSILO	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSLAG	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Opacity	
Minimum Frequency: once per month	
Averaging Period: six minutes	
Deviation Limit: 10% opacity	
Periodic Monitoring Text: Opacity shall be monitored, by a certified observer, for at least one, six-minute period in accordance with Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Any opacity readings above the deviation limit shall be reported as a deviation.	

### Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: N56A	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.60
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: One-minute	
Deviation Limit: Visible emissions and 10% opacity	
<p>Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation.</p> <p>If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.</p>	

**New Source Review Authorization References**

<b>New Source Review Authorization References .....</b>	<b>39</b>
<b>New Source Review Authorization References by Emission Unit .....</b>	<b>40</b>



### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX145M1	Issuance Date: 04/22/2014
<b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b>	
Authorization No.: 52237	Issuance Date: 12/27/2011
Authorization No.: 54744	Issuance Date: 09/07/2012
Authorization No.: 6758	Issuance Date: 04/22/2014
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.144	Version No./Date: 03/14/1997
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 09/04/2000
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.478	Version No./Date: 03/14/1997
Number: 58	Version No./Date: 09/23/1982

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
CD-1	CLINKER DROP TO PILE	106.261/09/04/2000
D01	LINESTONE STORAGE BUILDING FUGITIVES	6758, PSDTX145M1
D04	LIMESTONE BIN DROP TO BELT	6758, PSDTX145M1
D06	LIMESTONE BIN DROP TO MILL BELT	6758, PSDTX145M1
D11	SHALE STORAGE BUILDING FUGITIVES	6758, PSDTX145M1
D14	BELT DROP TO SHALE BIN	6758, PSDTX145M1
D15	LOADER DROP TO HOPPER	6758, PSDTX145M1
D16	SHALE BIN DROP BELT	6758, PSDTX145M1
D17	ADDITIVES ELEVATOR BAGHOUSE	6758, PSDTX145M1
D20	SAND/ADDITIVES DROP TO HOPPER	6758, PSDTX145M1
D28	LIMESTONE BIN BAGHOUSE	6758, PSDTX145M1
E01	RAY BYPASS DROP TO SHED	6758, PSDTX145M1
E03	BELT DROP TO RAW BIN	6758, PSDTX145M1
F05	RETURN ELEVATOR BAGHOUSE	6758, PSDTX145M1
F09	BLENDING SILO BAGHOUSE	6758, PSDTX145M1
F13	ELEVATOR BAGHOUSE	6758, PSDTX145M1
H09	AEOROPOL FEED BAGHOUSE	6758, PSDTX145M1
K02	KILN STACK	6758, PSDTX145M1
K38	CLINKER ELEVATOR BAGHOUSE	6758, PSDTX145M1
L02	HOT CLINKER BAGHOUSE	6758, PSDTX145M1
L04	DOME 1 BAGHOUSE	6758, PSDTX145M1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
L07	DOME 1 BOTTOM BAGHOUSE	6758, PSDTX145M1
L08	TRUCK LOADOUT SILO BAGHOUSE	6758, PSDTX145M1
L27	CLINKER DOME 2 BOTTOM BAGHOUSE	6758, PSDTX145M1
L29	CLINKER FEED BELT BAGHOUSE	6758, PSDTX145M1
L30	DOME 2 BAGHOUSE	6758, PSDTX145M1
M01	LOADING DROP TO ADDITIVE HOPPER	6758, PSDTX145M1
M-02	ADDITIVES BELT BAGHOUSE	6758, PSDTX145M1
M04	ADDITIVE BELT BAGHOUSE	6758, PSDTX145M1
M-12	REVERSIBLE BELT/GYP BIN BAGHOUSE	6758, PSDTX145M1
M-13	CLINKER/LIMESTONE BINS BAGHOUSE	6758, PSDTX145M1
M-14	SPECIAL CLINKER BIN BAGHOUSE	6758, PSDTX145M1
M-18	SPECIAL CLINKER FEEDER BELT BAGHOUSE	6758, PSDTX145M1
M-19	SPECIAL CLINKER FEEDER BELT BAGHOUSE	6758, PSDTX145M1
M-21	GYPSUM DRAGCHAIN TO BELT #1	6758, PSDTX145M1
M-23	GYPSUM DRAGCHAIN TO BELT #2	6758, PSDTX145M1
M-24	LIMESTONE WEIGHFEEDERS, BELT #1	6758, PSDTX145M1
M-25	LIMESTONE WEIGHFEEDERS, BELT #2	6758, PSDTX145M1
M-26	CLINKER FEED BELT BAGHOUSE	6758, PSDTX145M1
M-34A	HOPPER DROP TO HOPPER	106.261/09/04/2000
M-34B	SCREW TRANSFER (M3401 TO M3402)	106.261/09/04/2000
M-34C	SCREW CONVEYOR DROP TO WEIGH FEEDER	106.261/09/04/2000

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
M-34	FE LOADER DROP TO HOPPER	106.261/09/04/2000
M-35A	HOPPER #2 DROP TO SCREW CONVEYOR	106.261/09/04/2000
M-35B	CONVEYOR TRANSFER (M36 TO M30)	106.261/09/04/2000
M-35	FE LOADER DROP TO SLAG HOPPER #2	106.261/09/04/2000
M-79	SILO 2 BAGHOUSE	6758, PSDTX145M1
N02	FM #1 SEPARATOR BAGHOUSE	6758, PSDTX145M1
N06A	FM# 1 ELEVATOR BAGHOUSE	6758, PSDTX145M1
N-136A	SILO 1 BAGHOUSE	6758, PSDTX145M1
N16A	FM #1 AIRSLIDES BAGHOUSE	6758, PSDTX145M1
N52	FM #2 SEPARATOR BAGHOUSE	6758, PSDTX145M1
N56A	FM #2 ELEVATOR BAGHOUSE	6758, PSDTX145M1
N66A	FM #2 AIRSLIDES BAGHOUSE	6758, PSDTX145M1
N72	FM #1 BELT BAGHOUSE	6758, PSDTX145M1
N73	FM #2 BELT BAGHOUSE	6758, PSDTX145M1
N-80	SILO 3 BAGHOUSE	6758, PSDTX145M1
N97	SILOS 12-15 BAGHOUSE	6758, PSDTX145M1
Q10	LOADER DROP TO OUTSIDE RAW HOPPERS	6758, PSDTX145M1
R09	SILO 1 LOADOUT BAGHOUSE	6758, PSDTX145M1
R102	MANNED BAGGER ELEVATOR BAGHOUSE	6758, PSDTX145M1
R19	SILO 2 LOADOUT BAGHOUSE	6758, PSDTX145M1
R29	SILO 3 LOADOUT BAGHOUSE	6758, PSDTX145M1

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
R39	SILOS 8-11 LOADOUT BAGHOUSE	6758, PSDTX145M1
R49	SILOS 4-7 LOADOUT BAGHOUSE	6758, PSDTX145M1
R59	SILOS 12-15 LOADOUT BAGHOUSE	6758, PSDTX145M1
R75	ROTARY BAGGING ELEVATOR BAGHOUSE	6758, PSDTX145M1
S07	BELT DROP TO SHUTTLE BELT	6758, PSDTX145M1
S08	COAL STORAGE BUILDING FUGITIVES	6758, PSDTX145M1
S11	DROP TO IMPACT BELT, EAST PILE	6758, PSDTX145M1
S13	DROP TO IMPACT BELT, WEST PILE	6758, PSDTX145M1
S18	IMPACT BELTS DROP TO FEEDER BIN	6758, PSDTX145M1
S20	MILL BELT DROP TO FEEDER BIN	6758, PSDTX145M1
S37	COAL BIN BAGHOUSE	6758, PSDTX145M1
S44	COALAND COKE UNLOADING BAGHOUSE	6758, PSDTX145M1
S98	COAL LOADER DROP TO HOPPER	6758, PSDTX145M1
SILO12-15	SILOS 12-15	6758, PSDTX145M1
SILO8-11	SILOS 8-11 BAGHOUSE	6758, PSDTX145M1

**Appendix A**

**Acronym List ..... 45**

## Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM .....	actual cubic feet per minute
AMOC .....	alternate means of control
ARP .....	Acid Rain Program
ASTM .....	American Society of Testing and Materials
B/PA .....	Beaumont/Port Arthur (nonattainment area)
CAM .....	Compliance Assurance Monitoring
CD .....	control device
CEMS .....	continuous emissions monitoring system
CFR .....	Code of Federal Regulations
COMS .....	continuous opacity monitoring system
CVS .....	closed vent system
D/FW .....	Dallas/Fort Worth (nonattainment area)
EP .....	emission point
EPA .....	U.S. Environmental Protection Agency
EU .....	emission unit
FCAA Amendments .....	Federal Clean Air Act Amendments
FOP .....	federal operating permit
gr/100 scf .....	grains per 100 standard cubic feet
HAP .....	hazardous air pollutant
H/G/B .....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S .....	hydrogen sulfide
ID No. ....	identification number
lb/hr .....	pound(s) per hour
MACT .....	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr .....	Million British thermal units per hour
NA .....	nonattainment
N/A .....	not applicable
NADB .....	National Allowance Data Base
NESHAP .....	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO <sub>x</sub> .....	nitrogen oxides
NSPS .....	New Source Performance Standard (40 CFR Part 60)
NSR .....	New Source Review
ORIS .....	Office of Regulatory Information Systems
Pb .....	lead
PBR .....	Permit By Rule
PEMS .....	predictive emissions monitoring system
PM .....	particulate matter
ppmv .....	parts per million by volume
PRO .....	process unit
PSD .....	prevention of significant deterioration
psia .....	pounds per square inch absolute
SIP .....	state implementation plan
SO <sub>2</sub> .....	sulfur dioxide
TCEQ .....	Texas Commission on Environmental Quality
TSP .....	total suspended particulate
TVP .....	true vapor pressure
U.S.C. ....	United States Code
VOC .....	volatile organic compound

**Appendix B**

**Major NSR Summary Table ..... 47**



**Major NSR Summary Table**

Permit Number: 6758 and PSDTX145M1			Issuance Date: 4/22/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
Clinker Production							
Q-1 Group (5)	Quarrying (6)	PM	14.61	13.49	6	17	
		PM10	8.64	9.59			
B-06	Crushing Operation Baghouse Stack	PM	0.60	2.52	6	17	
		PM10	0.60	2.52			
RMS Group (7)	Transport to Raw Material Storage Bins/RMS (6)	PM	5.58	4.62	6	17	
		PM10	1.33	1.21			
D-28	Additives Elevator Baghouse	PM	0.94	3.96	6	17	
		PM10	0.94	3.96			
K-19	Grinding/Preheating/Kiln ESP Stack (8)	PM (filterable)	32.24	135.41	6, 8, 14	14, 16, 17	14, 16
		PM10 (filterable)	32.24	135.41			
		PM (condensable)	4.09	17.19			
		PM10 (condensable)	4.09	17.19			
		PM (total)	36.33	152.59			
		PM10 (total)	36.33	152.59			
		NOx	660.0	2772.0			
		SO2	20.00	84.0			
		VOC	15.00	63.00			
		CO	460.00	1932.0			
		HCl	2.00	8.76			
		H2SO4	2.00	8.40			
F-11	Blending Silo Baghouse	PM	1.03	4.32	6	17	
		PM10	1.03	4.32			

**Major NSR Summary Table**

Permit Number: 6758 and PSDTX145M1			Issuance Date: 4/22/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
F-12	Return Elevator Baghouse	PM	0.26	1.08	6	17	
		PM10	0.26	1.08			
H-06	Aeropol Feed Baghouse	PM	0.17	0.72	6	17	
		PM10	0.17	0.72			
H-07	Elevator Baghouse	PM	0.21	0.86	6	17	
		PM10	0.21	0.86			
L-12	Clinker Elevator Baghouse Stack	PM	0.45	1.91	6	17	
		PM10	0.45	1.91			
L-13	Hot Clinker Baghouse Stack	PM	0.43	1.80	6	17	
		PM10	0.43	1.80			
L-14	Dome I Baghouse Stack	PM	0.45	1.89	6	17	
		PM10	0.45	1.89			
L-15	Dome I Bottom Baghouse Stack	PM	0.32	1.44	6	17	
		PM10	0.32	1.44			
L-16	Truck Loadout Silo Baghouse Stack	PM	1.03	4.32	6	17	
		PM10	1.03	4.32			
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.21	0.86	6	17	
		PM10	0.21	0.86			
L-19	Dome 2 Baghouse Stack	PM	0.12	0.50	6	17	
		PM10	0.12	0.50			
Finish Milling							
M-02	Additive Belt Baghouse Stack	PM	0.25	1.04	6	17	
		PM10	0.25	1.04			

**Major NSR Summary Table**

Permit Number: 6758 and PSDTX145M1			Issuance Date: 4/22/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
M-04	Additive Belt Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM	0.25	1.04	6	17	
		PM10	0.25	1.04			
M-09	Clinker/Limestone Bins Baghouse Stack	PM	0.30	1.26	6	17	
		PM10	0.30	1.26			
M-10	Special Clinker Bin Baghouse Stack	PM	0.21	0.86	6	17	
		PM10	0.21	0.86			
M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40	6	17	
		PM10	0.33	1.40			
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04	6	17	
		PM10	0.25	1.04			
M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04	6	17	
		PM10	0.25	1.04			
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04	6	17	
		PM10	0.25	1.04			
N-09	FM No.1 Elevator Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-13	FM No.1 Separator Baghouse Stack	PM	2.52	10.58	6	17	
		PM10	1.26	5.29			
N-20	Fly Ash Bins Baghouse Stack	PM	0.17	0.72	6	17	
		PM10	0.17	0.72			

### Major NSR Summary Table

Permit Number: 6758 and PSDTX145M1			Issuance Date: 4/22/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
N-22	FM No.1 Airslides Baghouse Stack	PM	0.72	3.02	6	17	
		PM10	0.36	1.51			
N-59	FM No.2 Elevator Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-63	FM No.2 Separator Baghouse Stack	PM	2.52	10.58	6	17	
		PM10	1.26	5.29			
N-69	FM No.2 Airslides Baghouse Stack	PM	0.72	3.02	6	17	
		PM10	0.36	1.51			
N-94a	FM No.1 Belt Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-94b	FM No.1 Belt Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-95	FM No.2 Belt Baghouse Stack	PM	0.25	1.04	6	17	
		PM10	0.25	1.04			
N-96	Silos 12-15 Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-97	Silos 4-7 Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-98	Silo 2 Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-99	Silo 1 Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			

### Major NSR Summary Table

Permit Number: 6758 and PSDTX145M1			Issuance Date: 4/22/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
N-100	Silo 3 Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
N-101	Silos 8-11 Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
Loadout and Bagging Operation							
R-08	Silo 1 Loadout Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
R-18	Silo 2 Loadout Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
R-28	Silo 3 Loadout Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
R-38	Silos 8-11 Loadout Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
R-48	Silos 4-7 Loadout Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
R-58	Silos 12-15 Loadout Baghouse Stack	PM	0.15	0.63	6	17	
		PM10	0.15	0.63			
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.26	5.29	6	17	
		PM10	1.26	5.29			
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.26	5.29	6	17	
		PM10	1.26	5.29			
F-1 Group (9)	Material Handling (6)	PM	5.78	5.71	6	17	
		PM10	2.76	2.71			

### Major NSR Summary Table

Permit Number: 6758 and PSDTX145M1			Issuance Date: 4/22/2014				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
Coal and Coke Operation							
S-01 Group (10)	Coal/Coke Stockpiles (6)	PM	0.60	1.71	6, 15	17	
		PM10	0.28	0.81			
S-98	Coal and Coke Road Hopper (6)	PM	1.80	7.90	6	17	
		PM10	0.90	4.00			
S-44	Coal and Coke Unloading Baghouse Stack	PM	0.64	2.70	6	17	
		PM10	0.64	2.70			
S-30	Coal Mill Baghouse	PM	2.14	9.00	6	17	
		PM10	2.14	9.00			
S-56	Coal Bin Baghouse	PM	0.60	2.52	6	17	
		PM10	0.60	2.52			
Planned Maintenance Activities							
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities	NOx	<0.01	<0.01	6, 13	12, 17	
		PM	0.77	0.64			
		PM10	0.55	0.63			
		PM2.5	0.24	0.31			
		VOC	2.35	<0.01			
MSSFUG2	Non-ILE Planned Maintenance Activities	NOx	1.27	0.18	6, 13	12, 17	
		CO	2.69	0.21			
		PM	10.60	0.73			
		PM10	8.30	0.55			
		PM2.5	4.40	0.23			

Footnotes:

- (1) Emission point identification – either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC – volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> – total oxides of nitrogen  
SO<sub>2</sub> – sulfur dioxide  
PM – total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
    PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
    PM<sub>2.5</sub> – particulate matter equal to or less than 2.5 microns in diameter  
CO – carbon monoxide  
HCl – hydrogen chloride  
H<sub>2</sub>SO<sub>4</sub> – sulfuric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The emission limitations for EPN Q-1 GROUP authorize emissions from EPNs Q-01, Q-02, Q-04, Q-05, Q-06, Q-07, Q-09, Q-10, and C-05.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) The emission limitations for EPN RMS GROUP authorize emissions from EPNs M-99, D-99, and M-98.
- (8) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.
- (9) The emission limitations for EPN F-1 GROUP authorize emissions from EPNs C-07, C-08, D-01, D-04, D-05, D-11, D-14, D-15, D-16, E-01, E-03, M-01, M-21, M-23, M-24, M-25, D-20, S-07, S-08, S-11, S-13, S-18, and S-20.
- (10) The emission limitations for EPN S-01 GROUP authorize emissions from EPNs S-99, CCS, and CLS.
- (11) Planned maintenance, startup, and shutdown (MSS) emissions are included.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



*A Permit Is Hereby Issued To*  
**Alamo Cement Company**  
*Authorizing the Construction and Operation of*  
**Cement Plant**  
*Located at* **San Antonio, Bexar County, Texas**  
Latitude 29° 36' 42" Longitude 98° 22' 32"

Permits: 6758 and PSDTX145M1

Amendment Date : April 22, 2014

Renewal Date: May 13, 2021

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]



6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

## **Special Conditions**

Permit Numbers 6758 and PSDTX145M1

### **Emission Standards and Fuel Specification**

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT) and these sources are restricted to the emission limits and other conditions specified in that attached table. In addition to the emissions from routine operations, this permit authorizes emissions from planned maintenance, startup, and shutdown (MSS) activities, and those emissions shall comply with the limits specified in the MAERT. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities and Attachment B identifies the non-ILE planned maintenance activities that are authorized by this permit. **(4/14)**
2. Compliance with the MAERT emission limits is based on a maximum primary crusher capacity of 1,250 tons per hour (tph) and 2,000,000 tons per year (tpy) of material quarried on site and a maximum dry calcine kiln feed rate of 200 tph and 1,680,000 tpy of raw feed comprised of limestone, shale, sand, mill scale, blast furnace slag, fly ash, bottom ash, glass, clay, and overburden. Additionally, compliance with these permitted emission limits specified in the attached table for the kiln is based upon a maximum clinker production rate of 124 tph.  
  
The above kiln feed rate may be replaced in part with diesel contaminated soil received from a subsidiary company, Alamo Concrete Products, but shall not exceed 2 tph nor 5,000 tpy replacement. There shall be no increase in emissions or increase in production as a result of this feed rate replacement with diesel contaminated soil.
3. The two raw material grinding mills shall not exceed a combined throughput limit of 240 tph of processed material.
4. These facilities shall comply with all the requirements of the Texas Commission on Environmental Quality (TCEQ), National Ambient Air Quality Standards, and the United States Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated for Portland Cement Plants in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Subparts A and F.
5. The holder of this permit shall burn coal, a coal/coke blend, and/or natural gas in the kiln/calcliner system.

### **Opacity/Visible Emission Limitations**

6. All sources listed on the attached MAERT shall be limited to 10 percent opacity except Point Source K-19 (see Special Condition No. 8). Observations for visible emissions shall be performed and recorded monthly while the facility is in operation. The visible emission determination must be made in accordance with 40 CFR Part 60, Appendix A, Test Method 22. The observation period when conducting Method 22 shall extend for at least one minute during normal operations. Contributions from uncombined water shall not be included in determining compliance with this condition. If visible emissions are observed, then the permit holder must conduct a six minute test of opacity in accordance with

40 CFR Part 60 Appendix A, Test Method 9. The Method 9 test must begin within one hour of any observation of visible emissions.

7. A street sweeper and other mobile equipment shall pick up debris from the plant roads and dump inside an enclosed structure. A front-end loader shall pick up the dust and debris from this structure and load it onto trucks for disposal. The contents of the truck shall be controlled as necessary to prevent emissions during transit.
8. The permit holder shall install, calibrate, operate, and maintain a continuous opacity monitoring system (COMS) to measure and record the opacity of emissions from Point Source K-19. The COMS data shall be used to determine continuous compliance with the opacity emission limitation of 20 percent averaged over a six-minute period.
  - A. The COMS shall satisfy all of the applicable Federal New Source Performance Standard requirements for COMS as specified in 40 CFR Part 60, Appendix B, Performance Specification 1 (PS-1). In order to demonstrate compliance with PS-1, the COMS shall meet the manufacturer's design and performance specifications, and undergo performance evaluation testing as outlined in 40 CFR 60 § 60.13. The TCEQ Regional Director shall be notified 30 days prior to the certification.
  - B. The COMS shall be zeroed and spanned daily as specified in 40 CFR § 60.13. Corrective action shall be taken when the 24-hour span drift exceeds two times the amounts specified in PS-1, or as specified by the TCEQ if not specified in PS 1.
  - C. The data shall be reduced to six-minute opacity averages, using a minimum of 36 equally-spaced data points from each six-minute period.
  - D. The COMS shall be operational during 95 percent of the operating hours of Point Source K-19, exclusive of the time required for zero and span checks. If this operational criterion is not met for the reporting quarter, the holder of this permit shall develop and implement a monitoring quality improvement plan. The monitoring quality improvement plan shall be developed and submitted to the TCEQ San Antonio Regional Office for their approval within six months. The plan should address the downtime issues to improve availability and reliability. The plan should also provide additional assurance of compliance. If the monitor is down for 24 consecutive hours or more, a test in accordance with 40 CFR Part 60 Appendix A, Method 9 shall be conducted once per day during daylight hours, and parametric support shall be used during nighttime hours.
  - E. Recertification, if required, shall be based on the requirements of 40 CFR Part 60, Appendix B, PS-1 in effect at the time of initial certification.

### **Operational Limitations and Work Practices**

9. The company shall comply with the following:
  - A. A wet spray shall be applied when visible dust emissions can be observed at the primary crusher.

- B. The top of all conveyor belts shall be covered. All conveyor belt transfer points shall be enclosed. To the extent necessary to achieve compliance with opacity limits, these transfer points will either be vented to a dust collector or equipped with a water spray. The dust collectors or water sprays shall be operated as necessary to achieve compliance with the opacity limits.
- C. Outgoing railroad cars and trucks used in transporting cement, clinkers, coal, and coke shall be cleaned and maintained as necessary to minimize fugitive emissions.
- D. General use roads, as described on the site map filed with the appropriate TCEQ Regional Office, shall be paved and cleaned as necessary to control the emission of dust to the minimum level possible under existing conditions. All other roads and traffic areas, as described on the map, shall be oiled or sprinkled with water and/or chemicals, as necessary, to control the emission of dust to the minimum level possible under existing conditions.
- E. Material collected by air pollution abatement equipment, which is not returned to the process, shall be disposed of on-site in a manner that minimizes any emissions in transit and prevents any emissions after disposal.
- F. The holder of this permit shall demonstrate that all hooding, duct, and collection systems are effective in minimizing fugitive emissions to as low a level as practicable with respect to the sources which they are controlling; and these systems shall be maintained to this level.

### **Planned Maintenance, Startup, and Shutdown**

- 10. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices, safe operating practices, and protection of the facility. **(4/14)**
- 11. Planned startup and shutdown activities associated with the kiln shall comply with the following definitions and requirements to minimize emissions: **(4/14)**
  - A. A planned startup of the kiln is defined as the period starting when the kiln's induced draft fan is turned on and fuel is fired in the main burner and ending when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 90 tons per hour, whichever occurs first.
  - B. A planned shutdown of the kiln is defined as the period starting when feed to the kiln is halted and ending when continuous kiln rotation ceases. A planned shutdown of the kiln is limited to 48 hours.
- 12. Compliance with the emissions limits for planned maintenance activities identified in this permit shall be demonstrated as follows: **(4/14)**

- A. For ILE planned maintenance activities (Attachment A):
    - (1) The total emissions from all ILE planned maintenance activities shall be considered to be no more than the estimated potential to emit for those activities that are represented in the MSS permit amendment application and subsequent associated submittals.
    - (2) The permit holder shall annually confirm the continued validity of the estimated potential to emit as represented in the MSS permit amendment application and subsequent associated submittals.
  - B. For each pollutant emitted during non-ILE planned maintenance activities (Attachment B), the permit holder shall do the following for each calendar month:
    - (1) Determine the total emissions of the pollutant that result from such non-ILE planned maintenance activities in accordance with the methods listed in Special Condition No. 13.
    - (2) Compare the pollutant's short-term (hourly) emissions during planned maintenance activities, as determined using one of the methods listed in Special Condition No. 13, to the applicable short-term planned MSS emissions limit in the MAERT.
    - (3) Once the pollutant's emissions during planned maintenance activities have been measured for 12 months after the MSS permit amendment is issued, compare the rolling 12-month emissions of the pollutant, as determined using the monthly emission totals, to the applicable annual planned MSS emissions limit in the MAERT.
13. Emissions from planned MSS activities authorized by this permit shall be determined by the use of an appropriate method, including but not limited to any of following methods:  
**(4/14)**
- A. Use of a continuous emission monitoring systems (CEMS). The CEMS shall be certified to measure the pollutant's emission over the entire range of a planned maintenance activity.
  - B. Use of emission factors, including but not limited to, facility-specific parameters, manufacturer's emission factors, and/or engineering knowledge of the facility's operations.
  - C. Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on an identical or similar facility, and correlation of that data with the facility's relevant operating parameters, including but not limited to, temperature, fuel input, and fuel sulfur content.
  - D. Use of emissions testing data collected during a planned maintenance activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including but not limited to, temperature, fuel input, and fuel sulfur content.

### **Continuous Demonstration of Compliance**

14. The holder of this permit shall install, calibrate and maintain a CEMS to measure and record the concentration of nitrogen oxides (NO<sub>x</sub>) from the Kiln Stack, Emission Point No. K-19.
  - A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements specified in Performance Specification No. 2, 40 CFR 60, Appendix B.
  - B. Each system shall be zeroed and spanned daily and corrective action taken when the 24 hour draft exceeds two times the amount specified in Performance Specification 2, CFR 60, Appendix B. Zero and span is not required on weekends or holidays if instrument technicians are not normally scheduled on those days. Each monitor shall be quality-assured at least quarterly using cylinder gas audits (CGA) in accordance with 40 CFR 60, Appendix F, Procedure 1, Section 5.1.2, with the following exception: a relative accuracy test audit is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality assured method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.
  - C. Excess emissions of NO<sub>x</sub> for each period during which the 30-day rolling average of emissions of NO<sub>x</sub> as measured and recorded by the CEMS exceed the emission limitation listed on the MAERT.

### **Compliance Condition**

15. Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel(s) utilized in this facility or shall allow air pollution control agency representatives to obtain a sample for analysis and also perform stack sampling and testing or perform volume sampling and testing as required.

### **Recordkeeping**

16. The holder of this permit shall submit to the appropriate TCEQ Regional Office, on a six month basis, an excess emissions and monitoring systems performance report for opacity consistent with the requirements of 40 CFR § 60.7(c) and (d).
17. Records shall be kept and maintained at the plant site on a five-year rolling basis and in accordance with General Condition No. 7 and 40 CFR Part 60, Subparts A and F, including the following:
  - A. Daily production records shall be recorded and made available for inspection by the TCEQ and any local air pollution control programs. Records shall include daily cement production and malfunctions in the process; daily raw material processing

and handling; and malfunctions of any air pollution abatement device systems. These records shall be summed monthly.

- B. Records of visible emission observations as specified in Special Condition No.6.
- C. Records of COMS emissions data as specified in Special Condition No. 8.
- D. Records of NO<sub>x</sub> CEMS emissions data to demonstrate compliance with the emission rates listed in the MAERT.
- E. Raw data files of all CEMS data including calibration checks and adjustments and maintenance performed on these systems.
- F. Records of planned MSS, including the following, to demonstrate compliance with Special Condition Nos. 11-13 and the MAERT: **(4/14)**
  - (1) Records of startup and shutdown of the kiln, including the date, time, duration, and emissions associated with those activities.
  - (2) Records of non-ILE planned maintenance activities and the associated emissions.
  - (3) Records of ILE planned maintenance activities and annual validations.

18. The following facilities are authorized by standard permit:

Facility	Registration Number	Authorization
Baghouse	54744	Pollution Control Project Standard Permit
Dry Process Cement Kiln	52237	Pollution Control Project Standard Permit

19. The table below lists the sources or activities that are authorized by standard exemption (SE) or permits by rule (PBR) under Title 30 Texas Administrative Code (30 TAC) Chapter 106. This list is not intended to be all inclusive and can be altered at the site without modifications to this permit. **(4/14)**

Facility or Activity	Registration Number	Authorization
Limestone Handling Operation Facility	40895	PBR 106.261
Limestone Storage Silo and associated equipment	40896	PBR 106.144
Limestone Additive Handling	40897	PBR 106.261
Slag Feed System	45698	PBR 106.261
Outside Clinker Storage Facility	47246	PBR 106.261
Overland Conveyor System	50057	PBR 106.261
Coal Mill No. 2	87105	PBR 106.262

Containers, reservoirs, or tanks used to store fuel oils, kerosene, diesel fuel, lubricating oils and/or oil additives	--	SE 58 (9/23/82)
Brazing, soldering, and welding	--	PBR 106.227
Maintenance painting	--	PBR 106.263
Enclosed and outdoor dry abrasive blasting	--	PBR 106.263 and/or PBR 106.452
Hand-held and equipment used for buffing, polishing, cutting, drilling, sanding, sawing, etc.	--	PBR 106.265
Solvent cleaning, parts degreaser	--	PBR 106.454
Emergency engines and portable small engines, over 12 months on site, including startup and shutdown	--	PBR 106.511
Sludge management	--	PBR 106.532
Organic chemical usage for water treatment	--	PBR 106.532

Date: April 22, 2014



## Attachment A

Permit Numbers 6758 and PSDTX145M1

Inherently Low Emitting Maintenance Activities

Planned Maintenance Activity	VOC	NO <sub>x</sub>	CO	PM	SO <sub>2</sub>
Vacuum truck solids loading				X	
Vacuum truck solids unloading				X	
Material handling system maintenance				X	
Material handling system maintenance (air gun)				X	
CEMS calibration		X			
Lube oil maintenance	X				
Gaseous fuel venting	X				
Refractory maintenance operations				X	
Miscellaneous particulate filter maintenance				X	
Kiln particulate filter maintenance				X	

Date: April 22, 2014

**Attachment B**

Permit Numbers 6758 and PSDTX145M1

Non-Inherently Low Emitting Maintenance Activities

<b>Planned Maintenance Activity</b>	<b>NH<sub>3</sub></b>	<b>VOC</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM</b>	<b>SO<sub>2</sub></b>
Deslagging/descaling maintenance operations			X	X	X	

Date: April 22, 2014

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6758 and PSDTX145M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

### Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
Clinker Production				
Q-1 Group (5)	Quarrying (6)	PM	14.61	13.49
		PM <sub>10</sub>	8.64	9.59
B-06	Crushing Operation Baghouse Stack	PM	0.60	2.52
		PM <sub>10</sub>	0.60	2.52
RMS Group (7)	Transport to Raw Material Storage Bins/RMS (6)	PM	5.58	4.62
		PM <sub>10</sub>	1.33	1.21
D-28	Additives Elevator Baghouse	PM	0.94	3.96
		PM <sub>10</sub>	0.94	3.96
K-19	Grinding/Preheating/Kiln ESP Stack (8)	PM (filterable)	32.24	135.41
		PM <sub>10</sub> (filterable)	32.24	135.41
		PM (condensable)	4.09	17.19
		PM <sub>10</sub> (condensable)	4.09	17.19
		PM (total)	36.33	152.59
		PM <sub>10</sub> (total)	36.33	152.59
		NO <sub>x</sub>	660.0	2772.0
		SO <sub>2</sub>	20.00	84.0
		VOC	15.00	63.00
		CO	460.00	1932.0
		HCl	2.00	8.76
		H <sub>2</sub> SO <sub>4</sub>	2.00	8.40
F-11	Blending Silo Baghouse	PM	1.03	4.32
		PM <sub>10</sub>	1.03	4.32

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
F-12	Return Elevator Baghouse	PM	0.26	1.08
		PM <sub>10</sub>	0.26	1.08
H-06	Aeropol Feed Baghouse	PM	0.17	0.72
		PM <sub>10</sub>	0.17	0.72
H-07	Elevator Baghouse	PM	0.21	0.86
		PM <sub>10</sub>	0.21	0.86
L-12	Clinker Elevator Baghouse Stack	PM	0.45	1.91
		PM <sub>10</sub>	0.45	1.91
L-13	Hot Clinker Baghouse Stack	PM	0.43	1.80
		PM <sub>10</sub>	0.43	1.80
L-14	Dome I Baghouse Stack	PM	0.45	1.89
		PM <sub>10</sub>	0.45	1.89
L-15	Dome I Bottom Baghouse Stack	PM	0.32	1.44
		PM <sub>10</sub>	0.32	1.44
L-16	Truck Loadout Silo Baghouse Stack	PM	1.03	4.32
		PM <sub>10</sub>	1.03	4.32
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.21	0.86
		PM <sub>10</sub>	0.21	0.86
L-19	Dome 2 Baghouse Stack	PM	0.12	0.50
		PM <sub>10</sub>	0.12	0.50
Finish Milling				
M-02	Additive Belt Baghouse Stack	PM	0.25	1.04
		PM <sub>10</sub>	0.25	1.04
M-04	Additive Belt Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM	0.25	1.04
		PM <sub>10</sub>	0.25	1.04

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
M-09	Clinker/Limestone Bins Baghouse Stack	PM	0.30	1.26
		PM <sub>10</sub>	0.30	1.26
M-10	Special Clinker Bin Baghouse Stack	PM	0.21	0.86
		PM <sub>10</sub>	0.21	0.86
M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40
		PM <sub>10</sub>	0.33	1.40
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04
		PM <sub>10</sub>	0.25	1.04
M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM <sub>10</sub>	0.25	1.04
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM <sub>10</sub>	0.25	1.04
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-13	FM No. 1 Separator Baghouse Stack	PM	2.52	10.58
		PM <sub>10</sub>	1.26	5.29
N-20	Fly Ash Bins Baghouse Stack	PM	0.17	0.72
		PM <sub>10</sub>	0.17	0.72
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.72	3.02
		PM <sub>10</sub>	0.36	1.51
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-63	FM No. 2 Separator Baghouse Stack	PM	2.52	10.58
		PM <sub>10</sub>	1.26	5.29
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.72	3.02
		PM <sub>10</sub>	0.36	1.51

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-94b	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04
		PM <sub>10</sub>	0.25	1.04
N-96	Silos 12-15 Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-97	Silos 4-7 Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-98	Silo 2 Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-99	Silo 1 Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-100	Silo 3 Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
N-101	Silos 8-11 Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
Loadout and Bagging Operation				
R-08	Silo 1 Loadout Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
R-18	Silo 2 Loadout Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
R-28	Silo 3 Loadout Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
R-38	Silos 8-11 Loadout Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
R-48	Silos 4-7 Loadout Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
R-58	Silos 12-15 Loadout Baghouse Stack	PM	0.15	0.63
		PM <sub>10</sub>	0.15	0.63
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.26	5.29
		PM <sub>10</sub>	1.26	5.29
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.26	5.29
		PM <sub>10</sub>	1.26	5.29
F-1 Group (9)	Material Handling (6)	PM	5.78	5.71
		PM <sub>10</sub>	2.76	2.71
Coal and Coke Operation				
S-01 Group (10)	Coal/Coke Stockpiles (6)	PM	0.60	1.71
		PM <sub>10</sub>	0.28	0.81
S-98	Coal and Coke Road Hopper (6)	PM	1.80	7.90
		PM <sub>10</sub>	0.90	4.00
S-44	Coal and Coke Unloading Baghouse Stack	PM	0.64	2.70
		PM <sub>10</sub>	0.64	2.70
S-30	Coal Mill Baghouse	PM	2.14	9.00
		PM <sub>10</sub>	2.14	9.00
S-56	Coal Bin Baghouse	PM	0.60	2.52
		PM <sub>10</sub>	0.60	2.52
Planned Maintenance Activities				
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities	NO <sub>x</sub>	<0.01	<0.01
		PM	0.77	0.64
		PM <sub>10</sub>	0.55	0.63
		PM <sub>2.5</sub>	0.24	0.31
		VOC	2.35	<0.01

## Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
MSSFUG2	Non-ILE Planned Maintenance Activities	NO <sub>x</sub>	1.27	0.18
		CO	2.69	0.21
		PM	10.60	0.73
		PM <sub>10</sub>	8.30	0.55
		PM <sub>2.5</sub>	4.40	0.23

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide  
 HCl - hydrogen chloride  
 H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The emission limitations for EPN Q-1 GROUP authorize emissions from EPNs Q-01, Q-02, Q-04, Q-05, Q-06, Q-07, Q-09, Q-10, and C-05.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) The emission limitations for EPN RMS GROUP authorize emissions from EPNs M-99, D-99, and M-98.
- (8) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.
- (9) The emission limitations for EPN F-1 GROUP authorize emissions from EPNs C-07, C-08, D-01, D-04, D-05, D-11, D-14, D-15, D-16, E-01, E-03, M-01, M-21, M-23, M-24, M-25, D-20, S-07, S-08, S-11, S-13, S-18, and S-20.
- (10) The emission limitations for EPN S-01 GROUP authorize emissions from EPNs S-99, CCS, and CLS.
- (11) Planned maintenance, startup, and shutdown (MSS) emissions are included.

Date: April 22, 2014